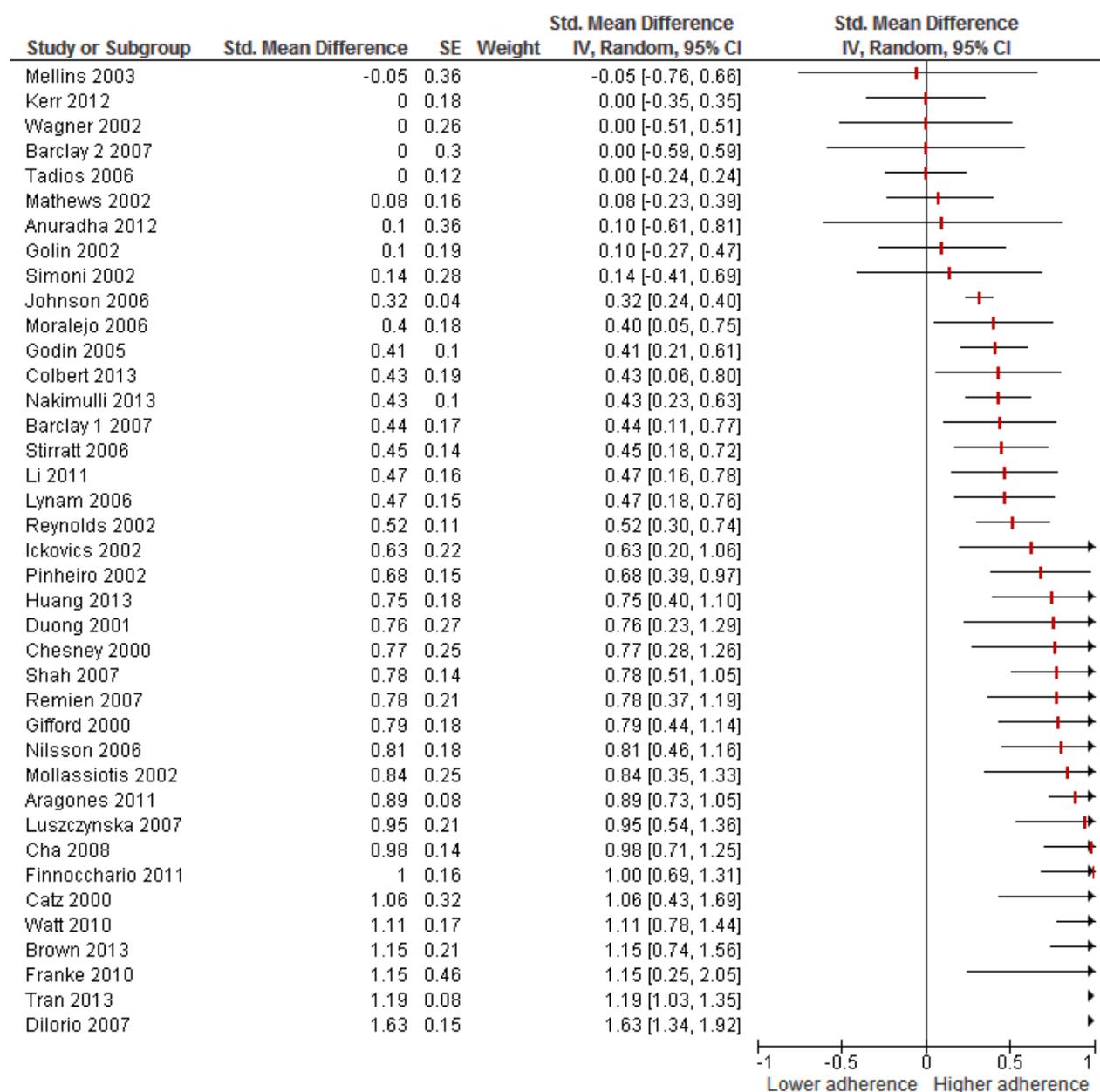


Additional file 1: Forest plots of individual studies examining predictors/correlates

Adherence self-efficacy

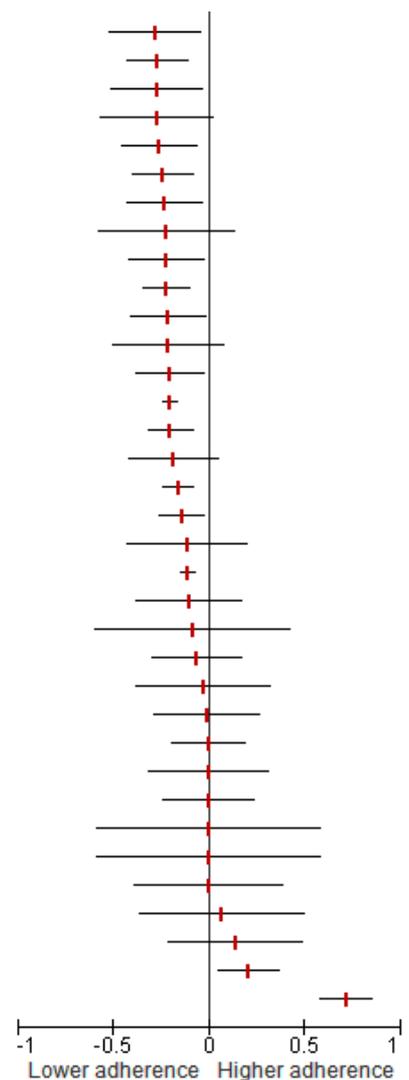


Current substance use

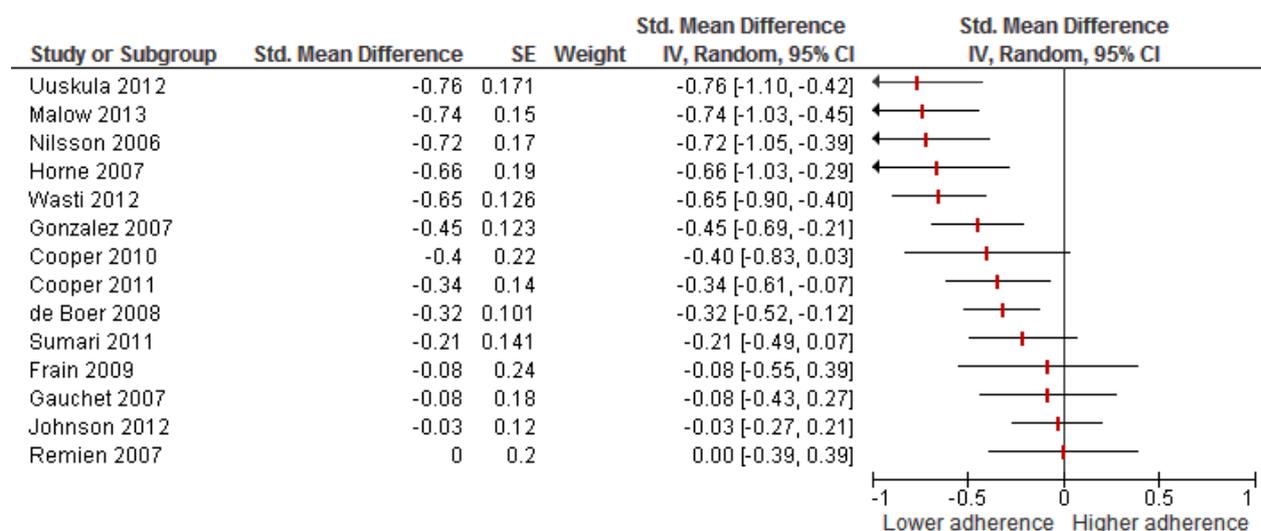
Study or Subgroup	Std. Mean Difference	SE	Weight	Std. Mean Difference		Std. Mean Difference IV, Random, 95% CI
				IV, Random, 95% CI	IV, Random, 95% CI	
Peltzer 2010	-2.41	0.14	1.3%	-2.41	[-2.68, -2.14]	◀
Mellins 2003	-1.74	0.348	0.7%	-1.74	[-2.42, -1.06]	◀
Berhe 2013	-1.3	0.12	1.3%	-1.30	[-1.54, -1.06]	◀
Plankey 2009	-1.24	0.047	1.5%	-1.24	[-1.33, -1.15]	◀
Bonolo 2005	-1.16	0.13	1.3%	-1.16	[-1.41, -0.91]	◀
Wasti 2012	-1.04	0.135	1.3%	-1.04	[-1.30, -0.78]	◀
Falang 2012	-1.01	0.112	1.3%	-1.01	[-1.23, -0.79]	◀
Ladefoged 2012	-0.86	0.33	0.8%	-0.86	[-1.51, -0.21]	◀
King 2012	-0.83	0.12	1.3%	-0.83	[-1.07, -0.59]	◀
Venkatesh 2010	-0.71	0.149	1.2%	-0.71	[-1.00, -0.42]	◀
Boyer 2011	-0.63	0.042	1.5%	-0.63	[-0.71, -0.55]	◀
Howard 2002	-0.63	0.168	1.2%	-0.63	[-0.96, -0.30]	◀
Heckman 2004	-0.62	0.126	1.3%	-0.62	[-0.87, -0.37]	◀
Catz 2000	-0.62	0.252	1.0%	-0.62	[-1.11, -0.13]	◀
Gonzalez 2004	-0.61	0.23	1.0%	-0.61	[-1.06, -0.16]	◀
Ammassari 2004	-0.6	0.188	1.1%	-0.60	[-0.97, -0.23]	◀
Chesney 2000	-0.54	0.25	1.0%	-0.54	[-1.03, -0.05]	◀
Etienne 2010	-0.54	0.07	1.4%	-0.54	[-0.68, -0.40]	◀
Finnocchario 2011	-0.53	0.165	1.2%	-0.53	[-0.85, -0.21]	◀
Murphy 2004	-0.53	0.187	1.1%	-0.53	[-0.90, -0.16]	◀
Fatima 2 2013	-0.53	0.2	1.1%	-0.53	[-0.92, -0.14]	◀
Sodergard 2006	-0.51	0.07	1.4%	-0.51	[-0.65, -0.37]	◀
Blackstock 2012	-0.5	0.165	1.2%	-0.50	[-0.82, -0.18]	◀
Cardarelli 2008	-0.48	0.206	1.1%	-0.48	[-0.88, -0.08]	◀
Pratt 2001	-0.46	0.13	1.3%	-0.46	[-0.71, -0.21]	◀
Uuskula 2012	-0.45	0.164	1.2%	-0.45	[-0.77, -0.13]	◀
Andrade 2013	-0.45	0.23	1.0%	-0.45	[-0.90, 0.00]	◀
Haubrich 1999	-0.43	0.164	1.2%	-0.43	[-0.75, -0.11]	◀
Teixera 2012	-0.43	0.17	1.2%	-0.43	[-0.76, -0.10]	◀
Fatima 1 2013	-0.43	0.16	1.2%	-0.43	[-0.74, -0.12]	◀
Yun 2005	-0.42	0.082	1.4%	-0.42	[-0.58, -0.26]	◀
Golin 2002	-0.41	0.184	1.1%	-0.41	[-0.77, -0.05]	◀
Barclay 1 2007	-0.41	0.184	1.1%	-0.41	[-0.77, -0.05]	◀
Mollassiotis 2002	-0.41	0.184	1.1%	-0.41	[-0.77, -0.05]	◀
Elul 2013	-0.39	0.06	1.4%	-0.39	[-0.51, -0.27]	◀
Lyimo 2014	-0.39	0.16	1.2%	-0.39	[-0.70, -0.08]	◀
Pefura 2013	-0.39	0.07	1.4%	-0.39	[-0.53, -0.25]	◀
Leserman 2008	-0.39	0.2	1.1%	-0.39	[-0.78, 0.00]	◀
Kalichman 2003	-0.38	0.21	1.1%	-0.38	[-0.79, 0.03]	◀
Kleeberger 2001	-0.36	0.081	1.4%	-0.36	[-0.52, -0.20]	◀
Peretti 3 2006	-0.33	0.101	1.4%	-0.33	[-0.53, -0.13]	◀
Campos 2010	-0.33	0.122	1.3%	-0.33	[-0.57, -0.09]	◀
Simoni 2012	-0.32	0.041	1.5%	-0.32	[-0.40, -0.24]	◀
Jacquet 2010	-0.3	0.08	1.4%	-0.30	[-0.46, -0.14]	◀
Kalichman 2010	-0.29	0.141	1.3%	-0.29	[-0.57, -0.01]	◀

Randomized trials

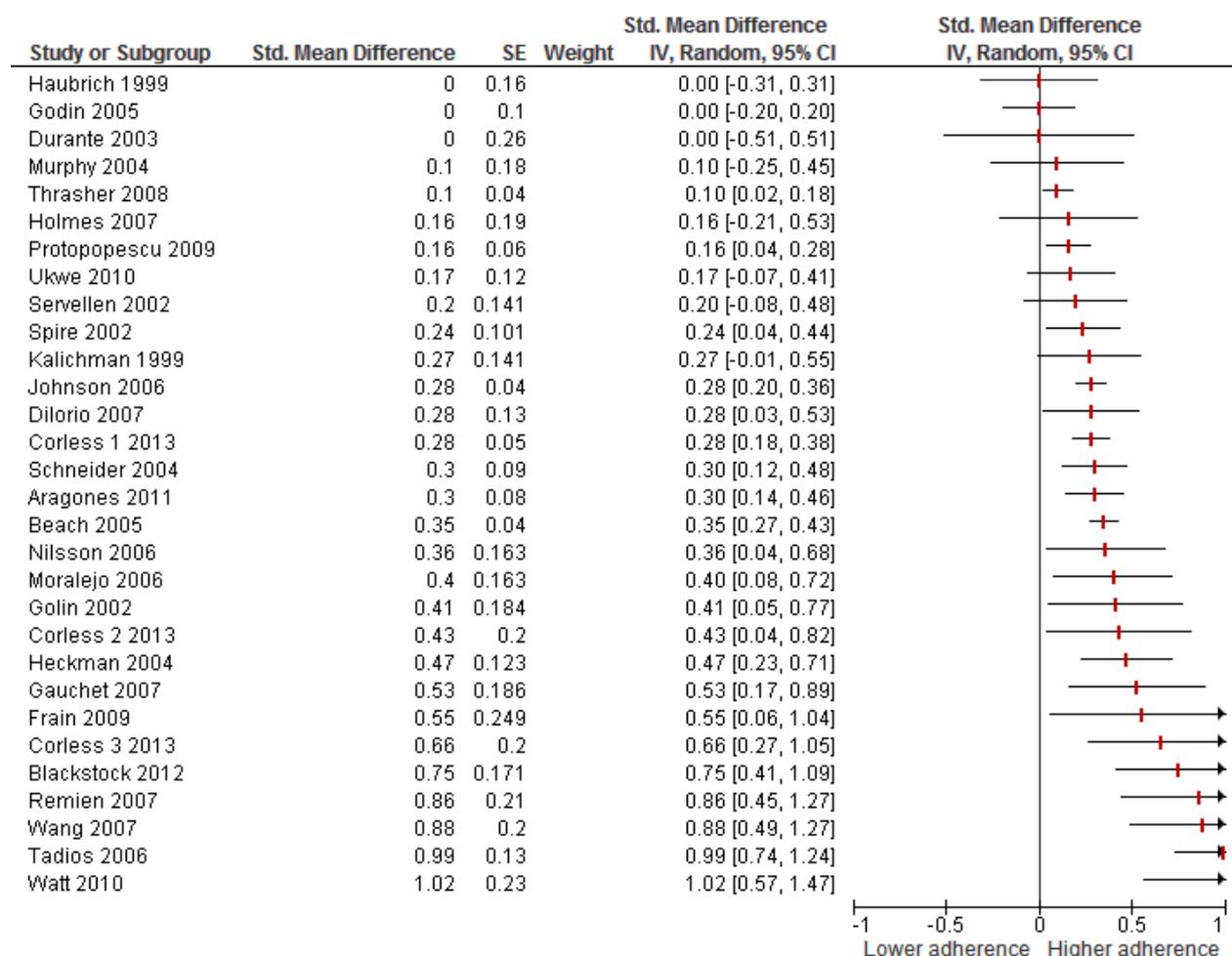
	Effect size	SE	95% CI
Mugavero 2009	-0.28	0.121	-0.28 [-0.52, -0.04]
Peretti 2 2006	-0.27	0.081	-0.27 [-0.43, -0.11]
Kyser 2011	-0.27	0.12	-0.27 [-0.51, -0.03]
Do 2010	-0.27	0.15	-0.27 [-0.56, 0.02]
Nakimulli 2013	-0.26	0.1	-0.26 [-0.46, -0.06]
Peretti 1 2006	-0.24	0.081	-0.24 [-0.40, -0.08]
Juday 2011	-0.23	0.101	-0.23 [-0.43, -0.03]
Holstad 2006	-0.22	0.181	-0.22 [-0.57, 0.13]
Spire 2002	-0.22	0.101	-0.22 [-0.42, -0.02]
Protopopescu 2009	-0.22	0.06	-0.22 [-0.34, -0.10]
Silva 2009	-0.21	0.1	-0.21 [-0.41, -0.01]
Kacanek 2010	-0.21	0.15	-0.21 [-0.50, 0.08]
Tedaldi 2012	-0.2	0.09	-0.20 [-0.38, -0.02]
Sullivan 2007	-0.2	0.02	-0.20 [-0.24, -0.16]
Lazo 2 2007	-0.2	0.06	-0.20 [-0.32, -0.08]
Ukwe 2010	-0.18	0.12	-0.18 [-0.42, 0.06]
Johnson 2003	-0.16	0.04	-0.16 [-0.24, -0.08]
Kumar 2009	-0.14	0.06	-0.14 [-0.26, -0.02]
Parruti 2006	-0.11	0.16	-0.11 [-0.42, 0.20]
Glass 2010	-0.11	0.02	-0.11 [-0.15, -0.07]
Wagner 2011	-0.1	0.14	-0.10 [-0.37, 0.17]
Shuter 2008	-0.08	0.26	-0.08 [-0.59, 0.43]
Anuradha 2012	-0.06	0.12	-0.06 [-0.30, 0.18]
Babson 2013	-0.03	0.18	-0.03 [-0.38, 0.32]
Bottonari 2012	-0.01	0.14	-0.01 [-0.28, 0.26]
Unge 2010	0	0.1	0.00 [-0.20, 0.20]
Mathews 2002	0	0.16	0.00 [-0.31, 0.31]
Kerr 2012	0	0.12	0.00 [-0.24, 0.24]
Simoni 2002	0	0.3	0.00 [-0.59, 0.59]
Barclay 2 2007	0	0.3	0.00 [-0.59, 0.59]
Oyugi 2007	0	0.2	0.00 [-0.39, 0.39]
Ickovics 2002	0.07	0.22	0.07 [-0.36, 0.50]
Murri 2001	0.14	0.18	0.14 [-0.21, 0.49]
Lazo 1 2007	0.21	0.08	0.21 [0.05, 0.37]
Weidle 2006	0.72	0.07	0.72 [0.58, 0.86]



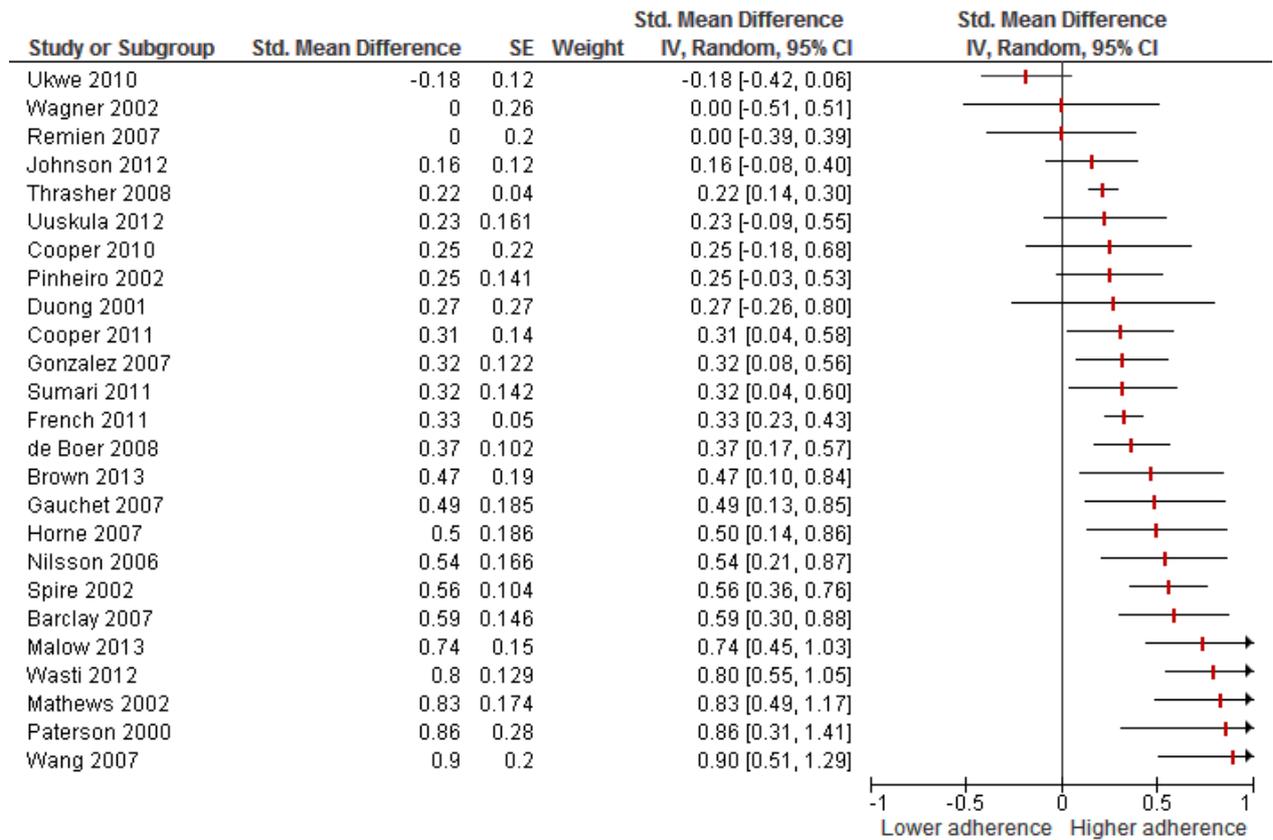
Concerns about cART



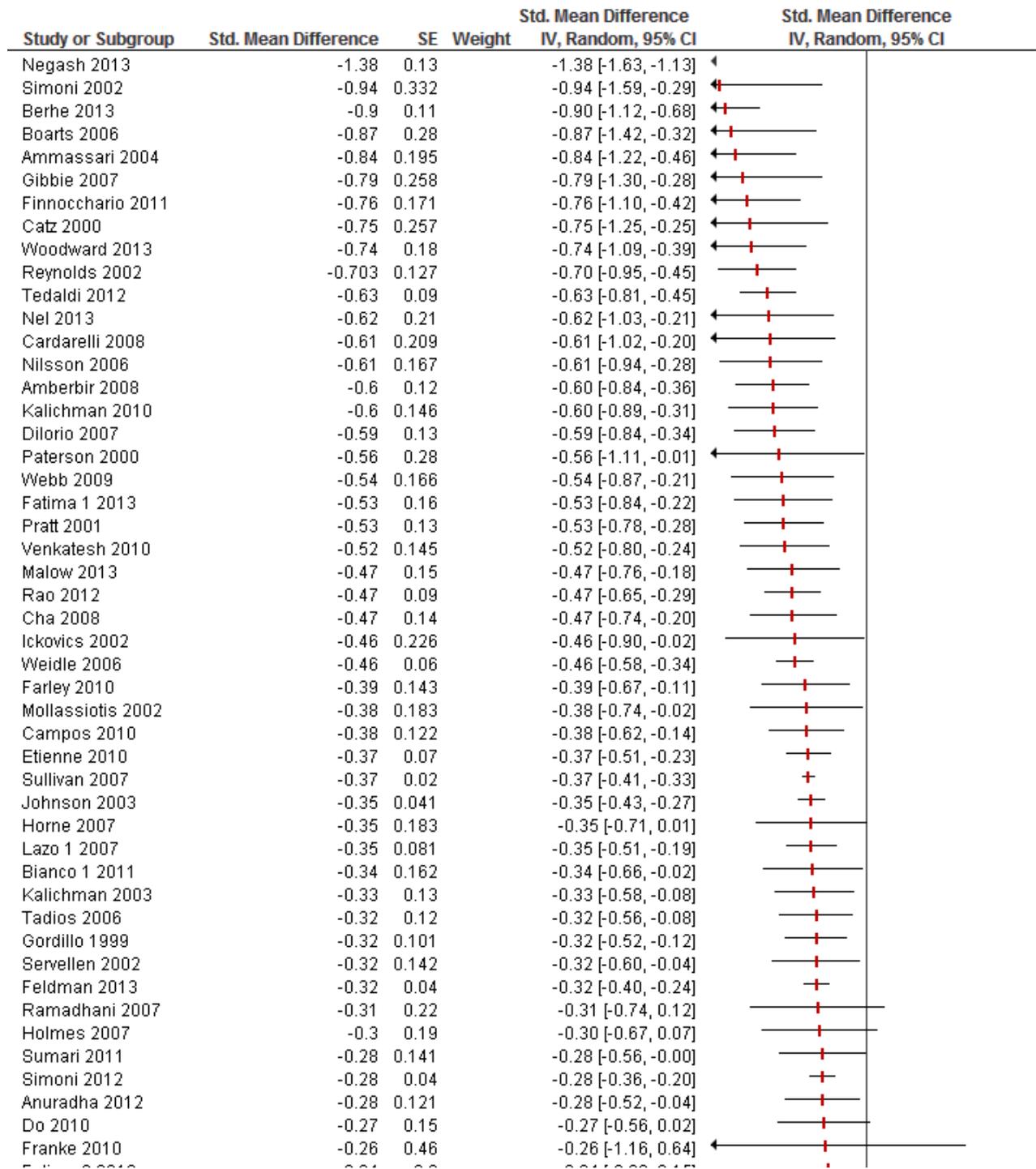
Trust /satisfaction HIV care provider

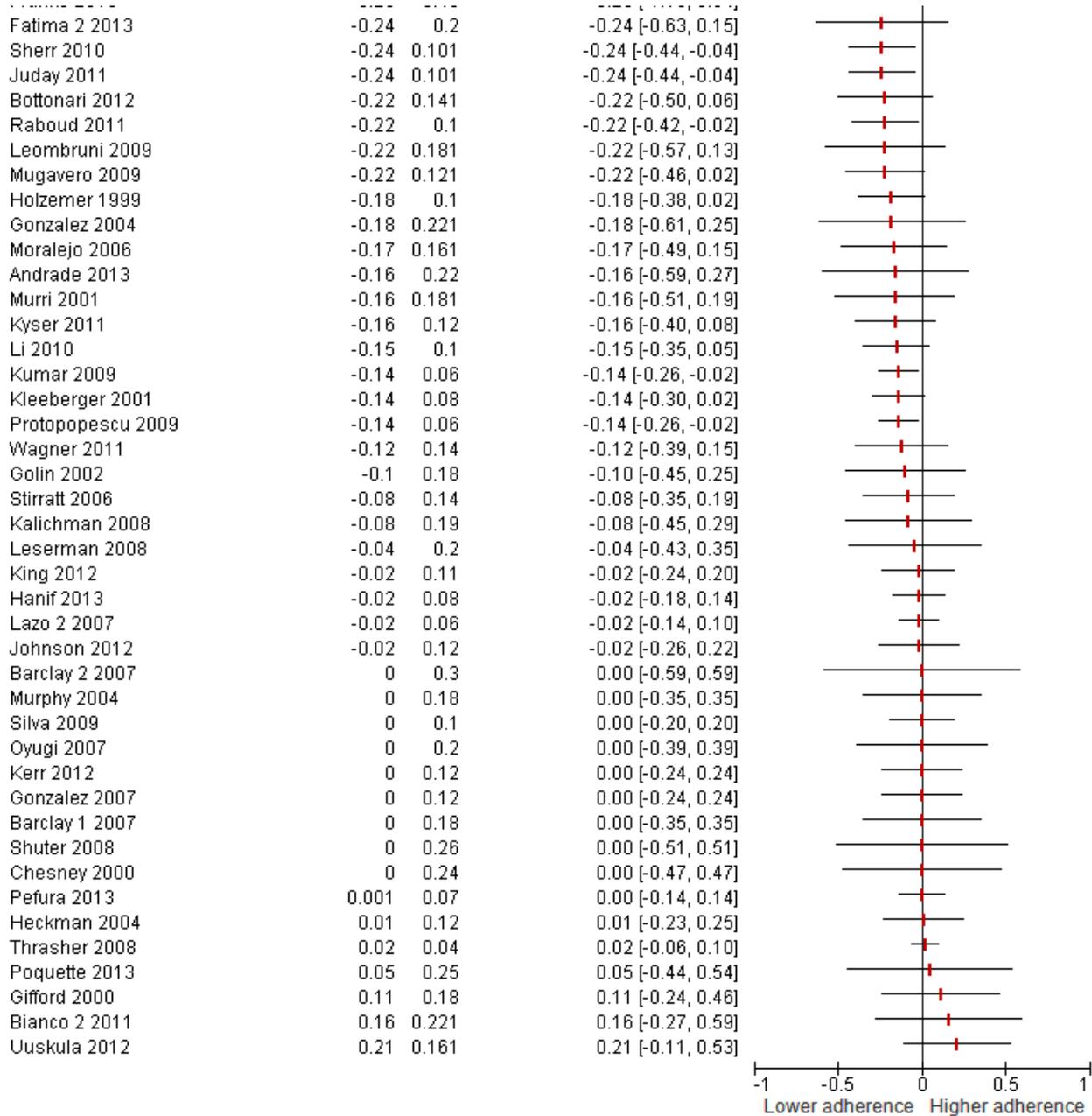


Belief necessity/utility of ART

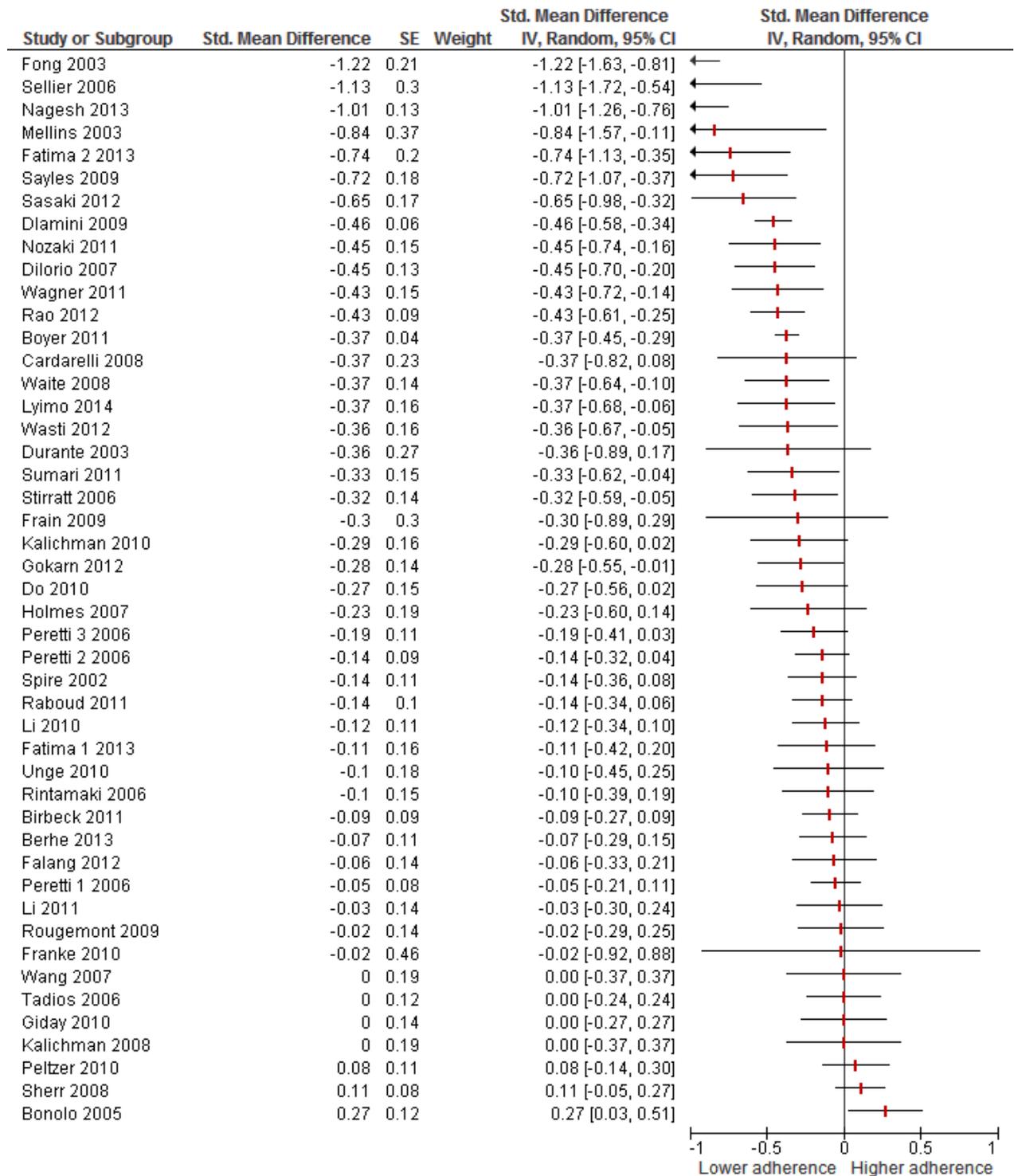


Depressive symptoms

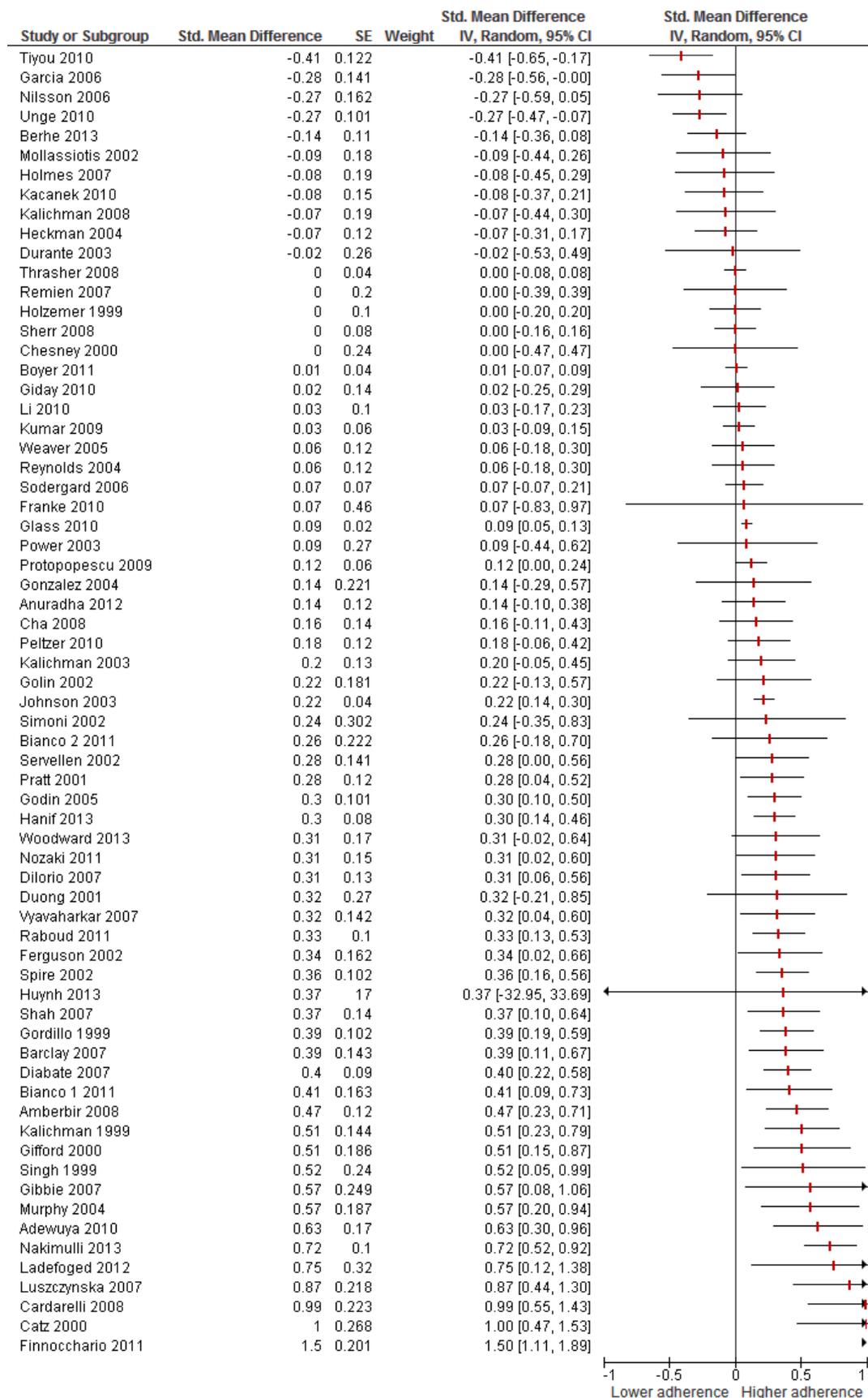




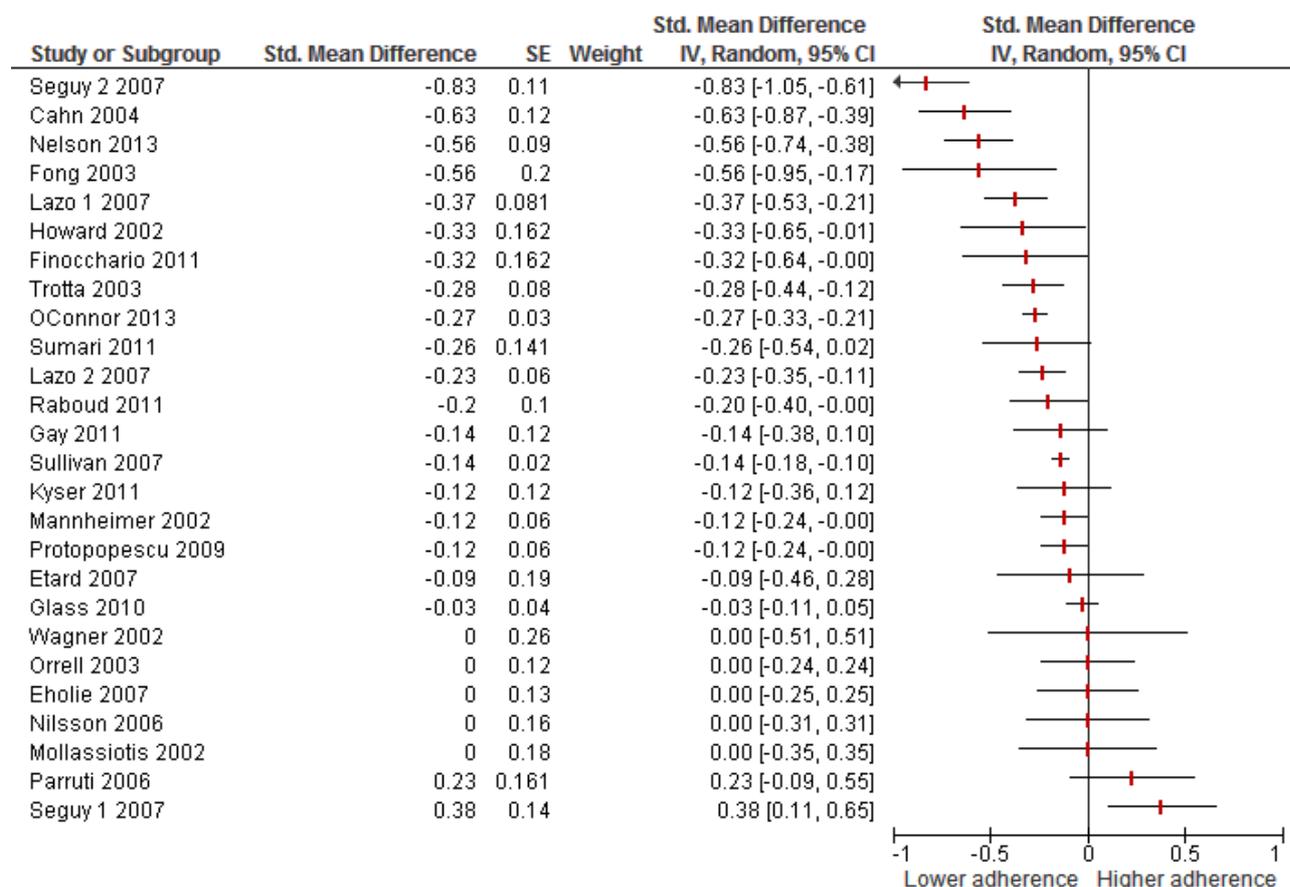
HIV stigma



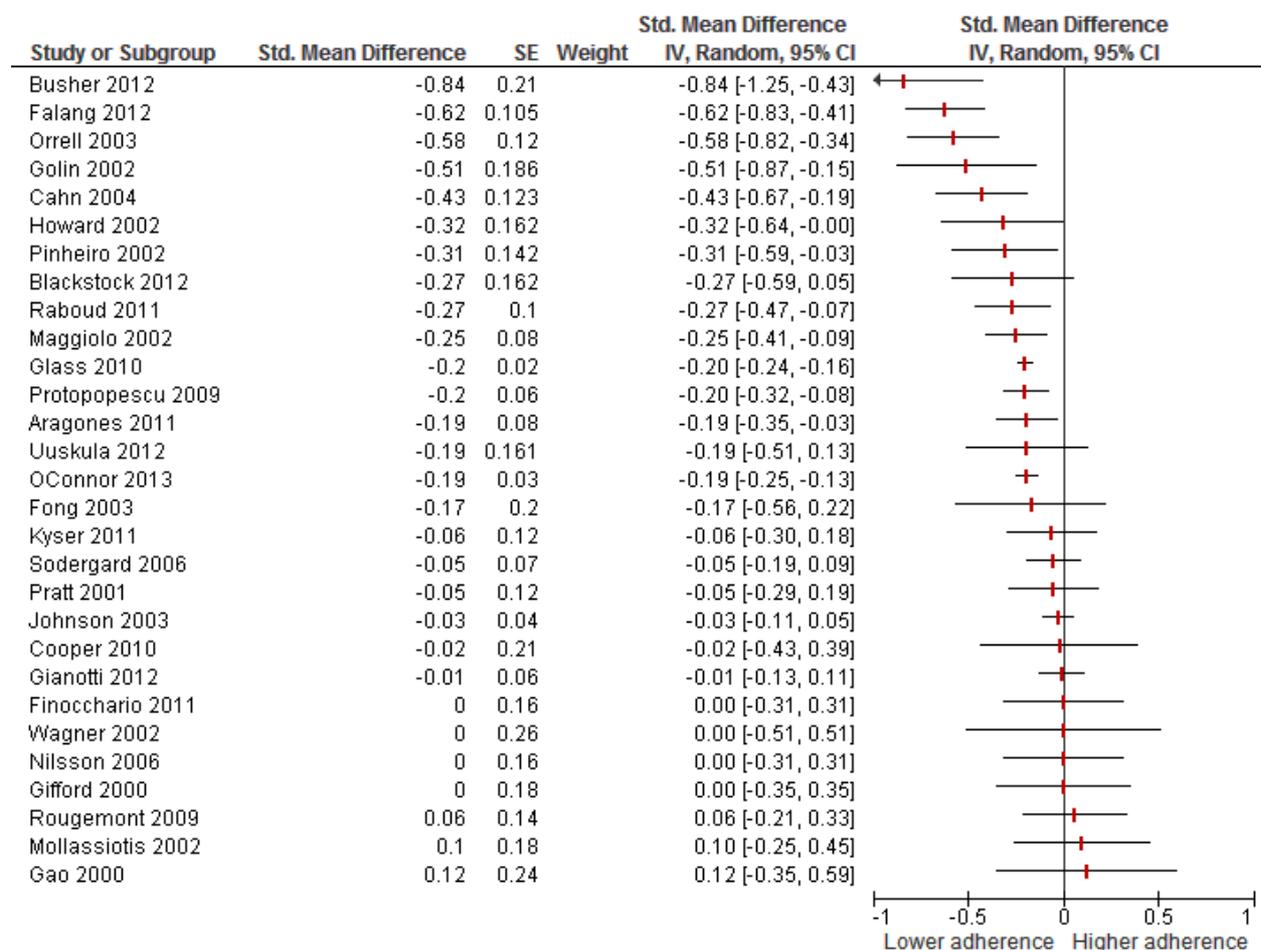
Social support



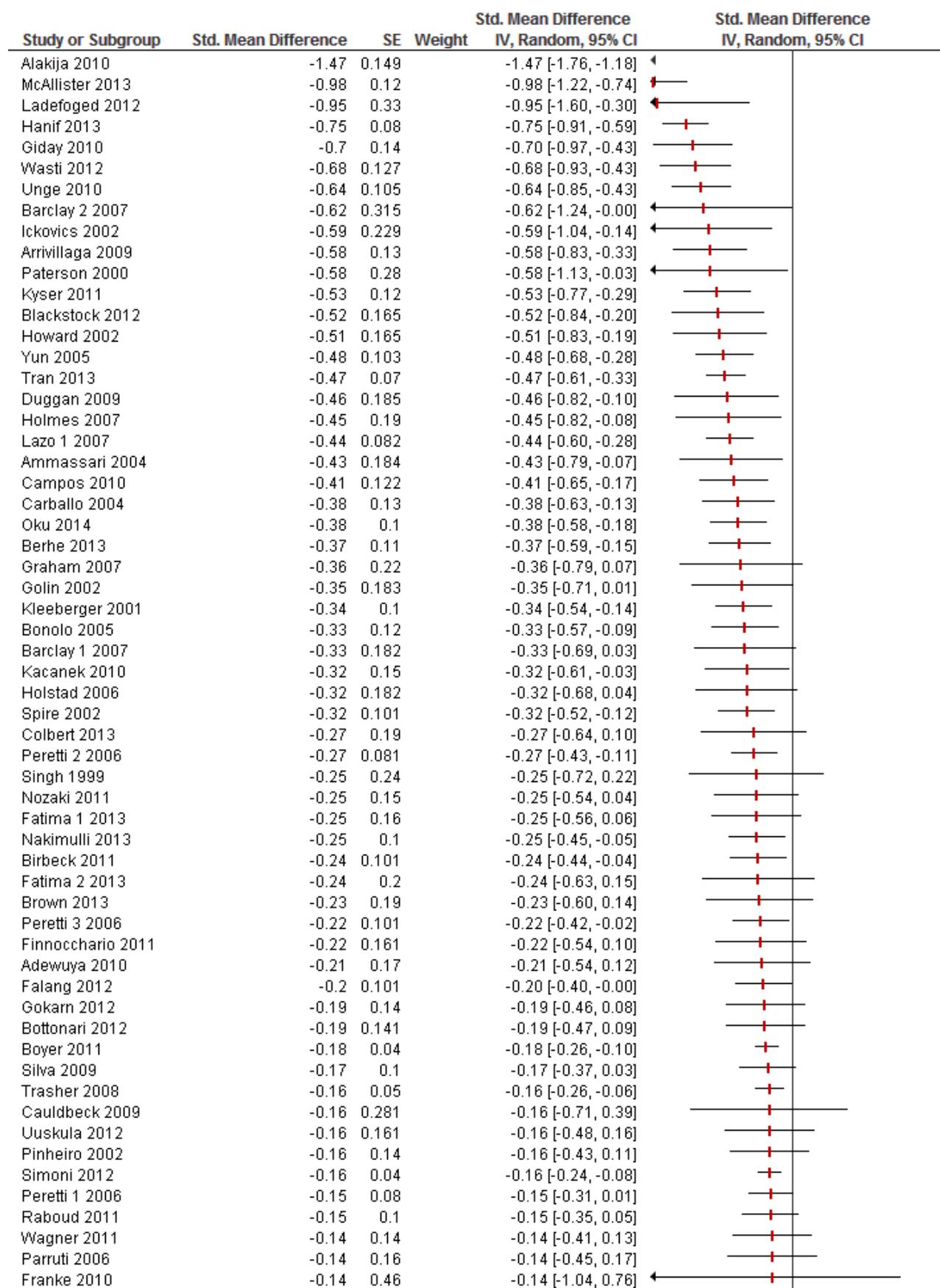
PI containing regimen



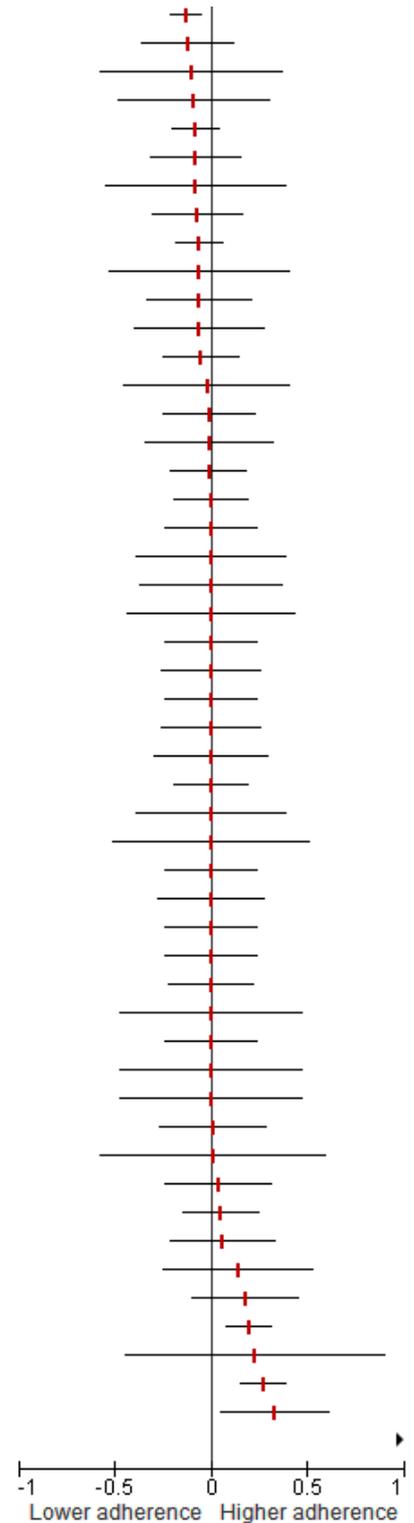
Daily dosing frequency



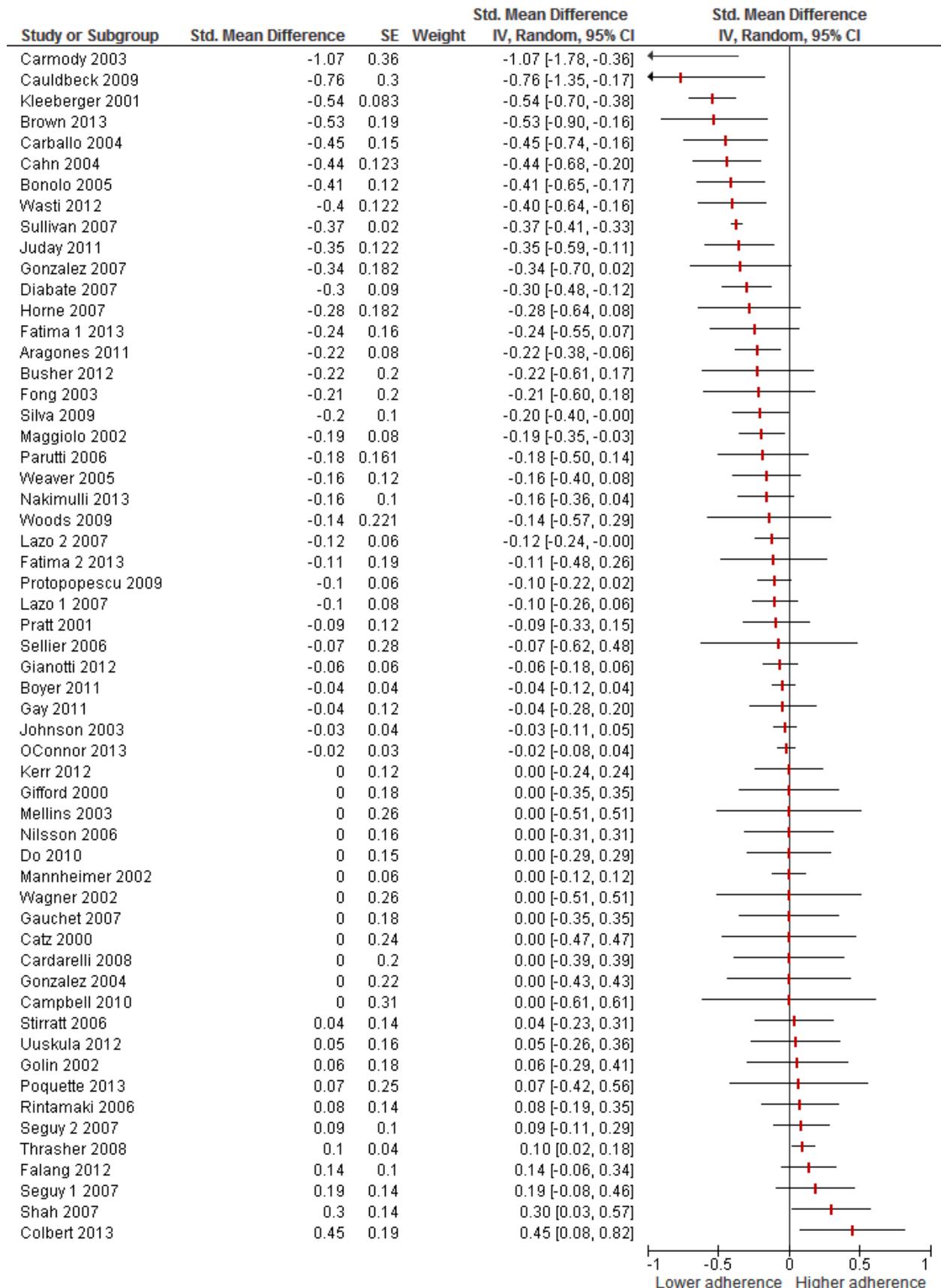
Financial constraints



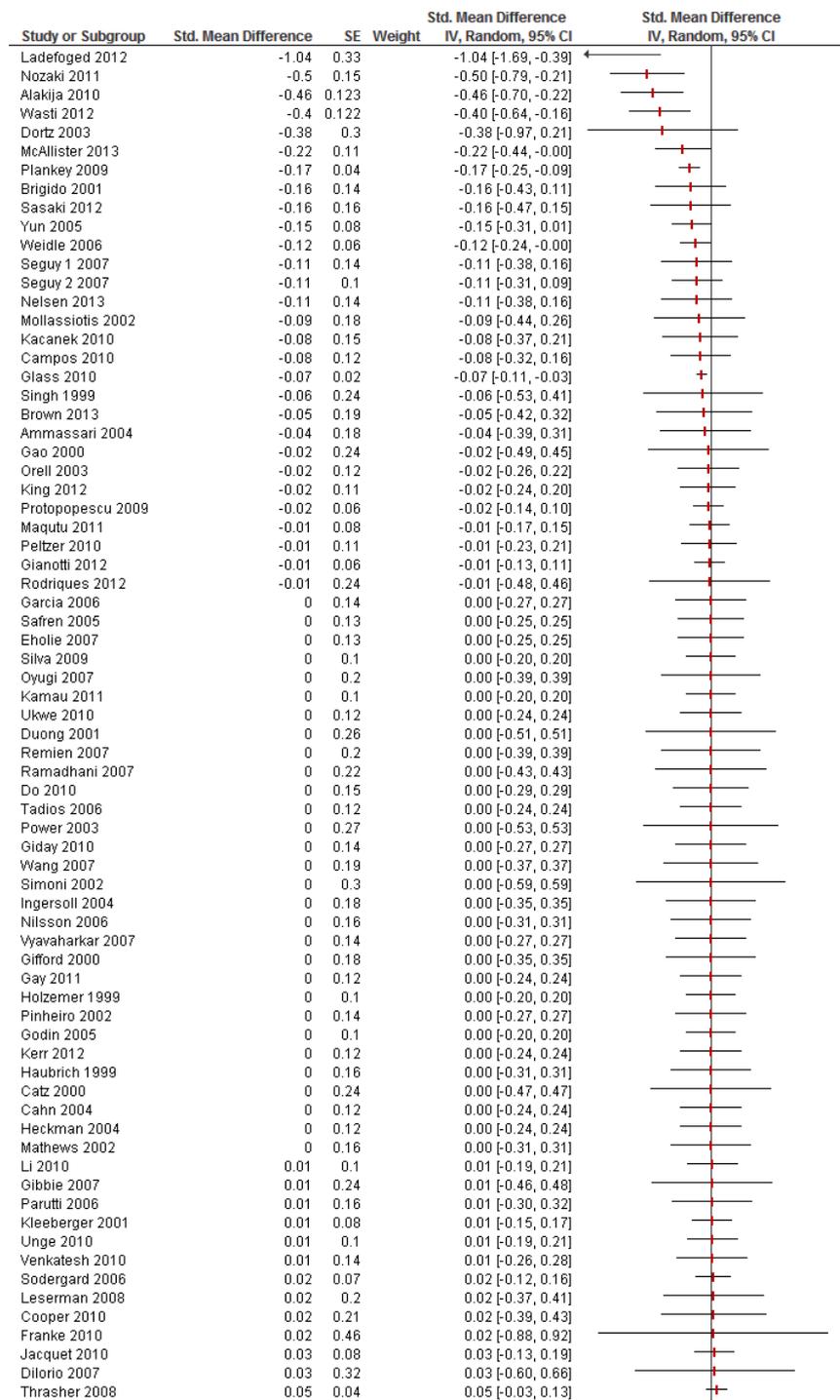
Johnson 2003	-0.13	0.04	-0.13 [-0.21, -0.05]
Tiyou 2010	-0.12	0.12	-0.12 [-0.36, 0.12]
Gibbie 2007	-0.1	0.24	-0.10 [-0.57, 0.37]
Leserman 2008	-0.09	0.2	-0.09 [-0.48, 0.30]
Lazo 2 2007	-0.08	0.06	-0.08 [-0.20, 0.04]
Weaver 2005	-0.08	0.12	-0.08 [-0.32, 0.16]
Gao 2000	-0.08	0.24	-0.08 [-0.55, 0.39]
Ukwe 2010	-0.07	0.12	-0.07 [-0.31, 0.17]
Protopopescu 2009	-0.06	0.06	-0.06 [-0.18, 0.06]
Frain 2009	-0.06	0.24	-0.06 [-0.53, 0.41]
Garcia 2006	-0.06	0.14	-0.06 [-0.33, 0.21]
Huynh 2013	-0.06	0.17	-0.06 [-0.39, 0.27]
Li 2010	-0.05	0.1	-0.05 [-0.25, 0.15]
Dilorio 2007	-0.02	0.22	-0.02 [-0.45, 0.41]
Gay 2011	-0.01	0.12	-0.01 [-0.25, 0.23]
Sayles 2009	-0.01	0.17	-0.01 [-0.34, 0.32]
Juday 2011	-0.01	0.1	-0.01 [-0.21, 0.19]
Kamau 2011	0	0.1	0.00 [-0.20, 0.20]
Anuradha 2012	0	0.12	0.00 [-0.24, 0.24]
Oyugi 2007	0	0.2	0.00 [-0.39, 0.39]
Wang 2007	0	0.19	0.00 [-0.37, 0.37]
Gonzalez 2004	0	0.22	0.00 [-0.43, 0.43]
Bianco 2011	0	0.12	0.00 [-0.24, 0.24]
Eholie 2007	0	0.13	0.00 [-0.25, 0.25]
Tadios 2006	0	0.12	0.00 [-0.24, 0.24]
Safren 2005	0	0.13	0.00 [-0.25, 0.25]
Do 2010	0	0.15	0.00 [-0.29, 0.29]
Holzemer 1999	0	0.1	0.00 [-0.20, 0.20]
Remien 2007	0	0.2	0.00 [-0.39, 0.39]
Wagner 2002	0	0.26	0.00 [-0.51, 0.51]
Heckman 2004	0	0.12	0.00 [-0.24, 0.24]
Vyavaharkar 2007	0	0.14	0.00 [-0.27, 0.27]
Gonzalez 2007	0	0.12	0.00 [-0.24, 0.24]
Orrell 2003	0	0.12	0.00 [-0.24, 0.24]
Peltzer 2010	0	0.11	0.00 [-0.22, 0.22]
Chesney 2000	0	0.24	0.00 [-0.47, 0.47]
Kerr 2012	0	0.12	0.00 [-0.24, 0.24]
Catz 2000	0	0.24	0.00 [-0.47, 0.47]
Rodrigues 2012	0.001	0.24	0.00 [-0.47, 0.47]
Kalichman 2010	0.01	0.14	0.01 [-0.26, 0.28]
Dortz 2003	0.01	0.3	0.01 [-0.58, 0.60]
Servellen 2002	0.04	0.14	0.04 [-0.23, 0.31]
Sherr 2010	0.05	0.1	0.05 [-0.15, 0.25]
Kalichman 1999	0.06	0.14	0.06 [-0.21, 0.33]
Busher 2012	0.14	0.2	0.14 [-0.25, 0.53]
Shah 2007	0.18	0.14	0.18 [-0.09, 0.45]
Kumar 2009	0.2	0.06	0.20 [0.08, 0.32]
Brigido 2001	0.23	0.342	0.23 [-0.44, 0.90]
Elul 2013	0.27	0.06	0.27 [0.15, 0.39]
Venkatesh 2010	0.33	0.142	0.33 [0.05, 0.61]
Sellier 2006	1.64	0.32	1.64 [1.01, 2.27]

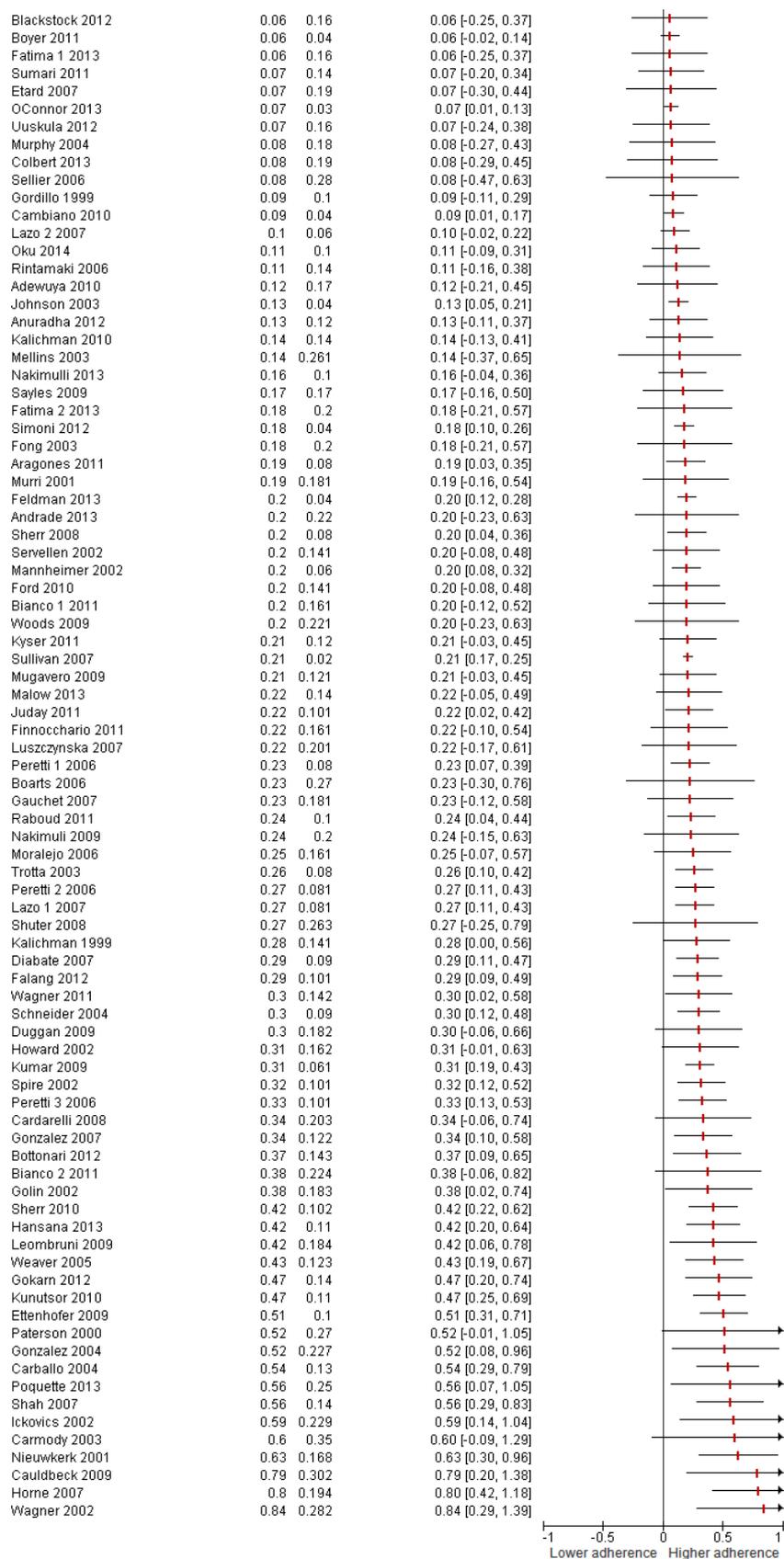


Pill burden

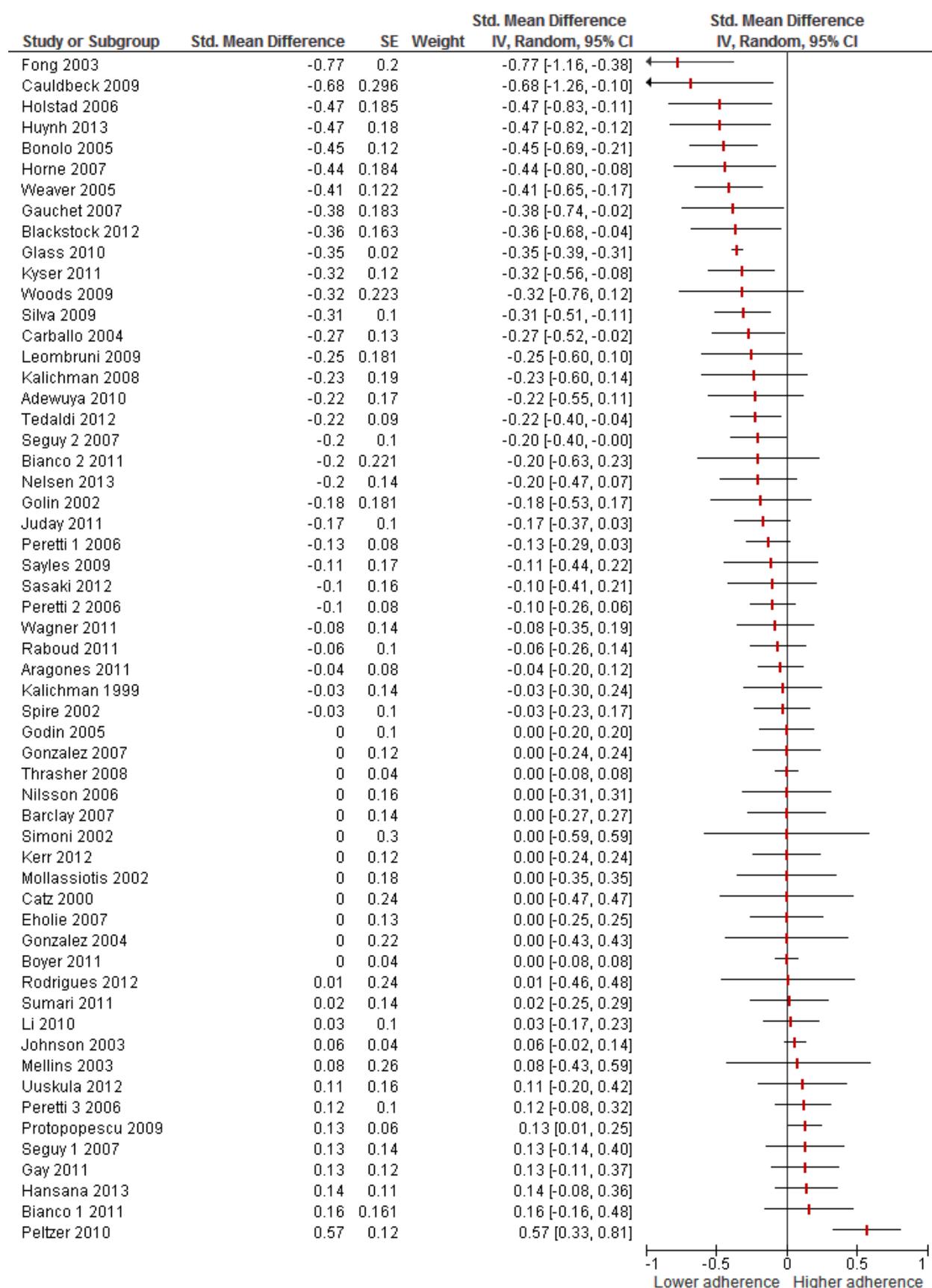


Age

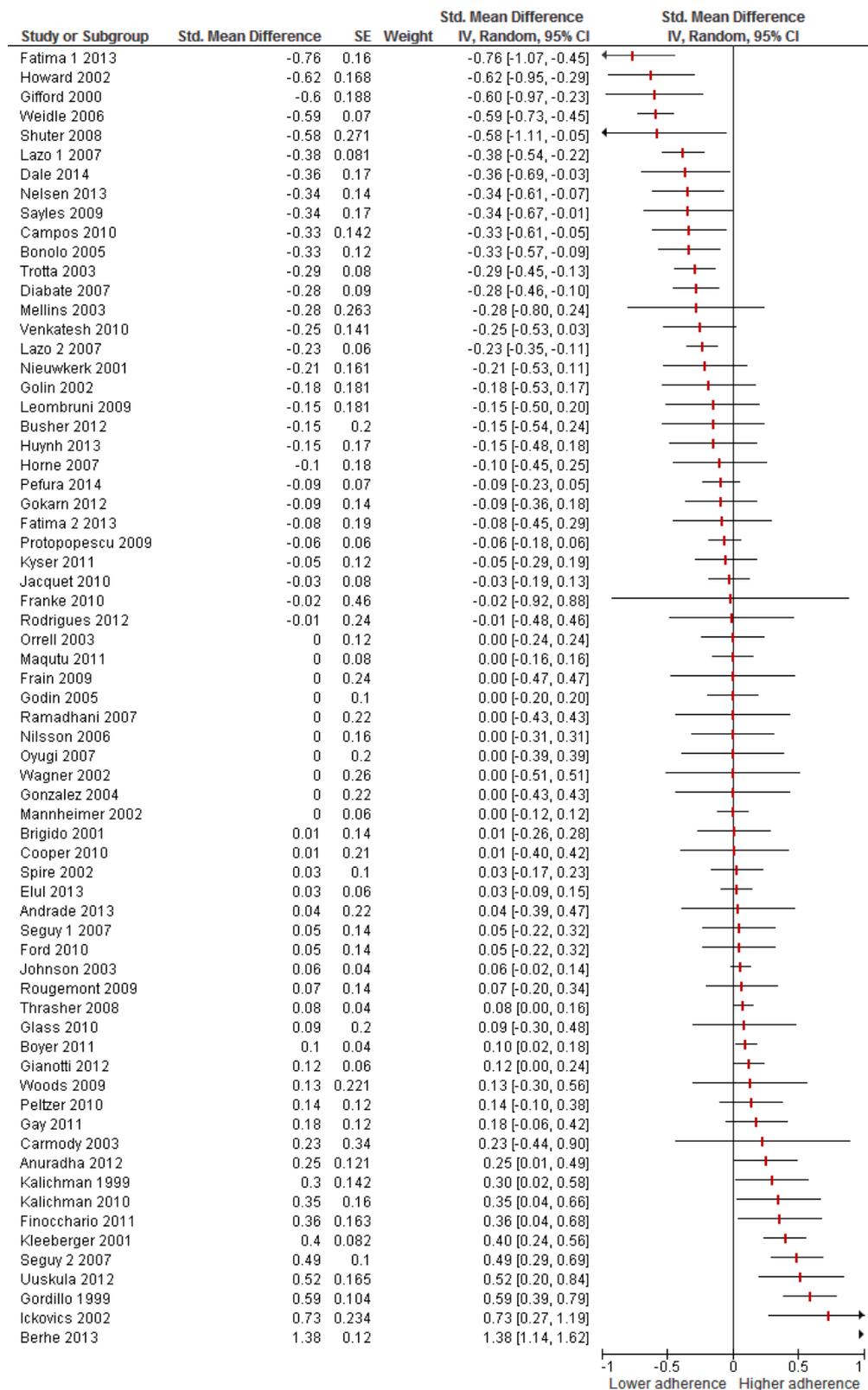




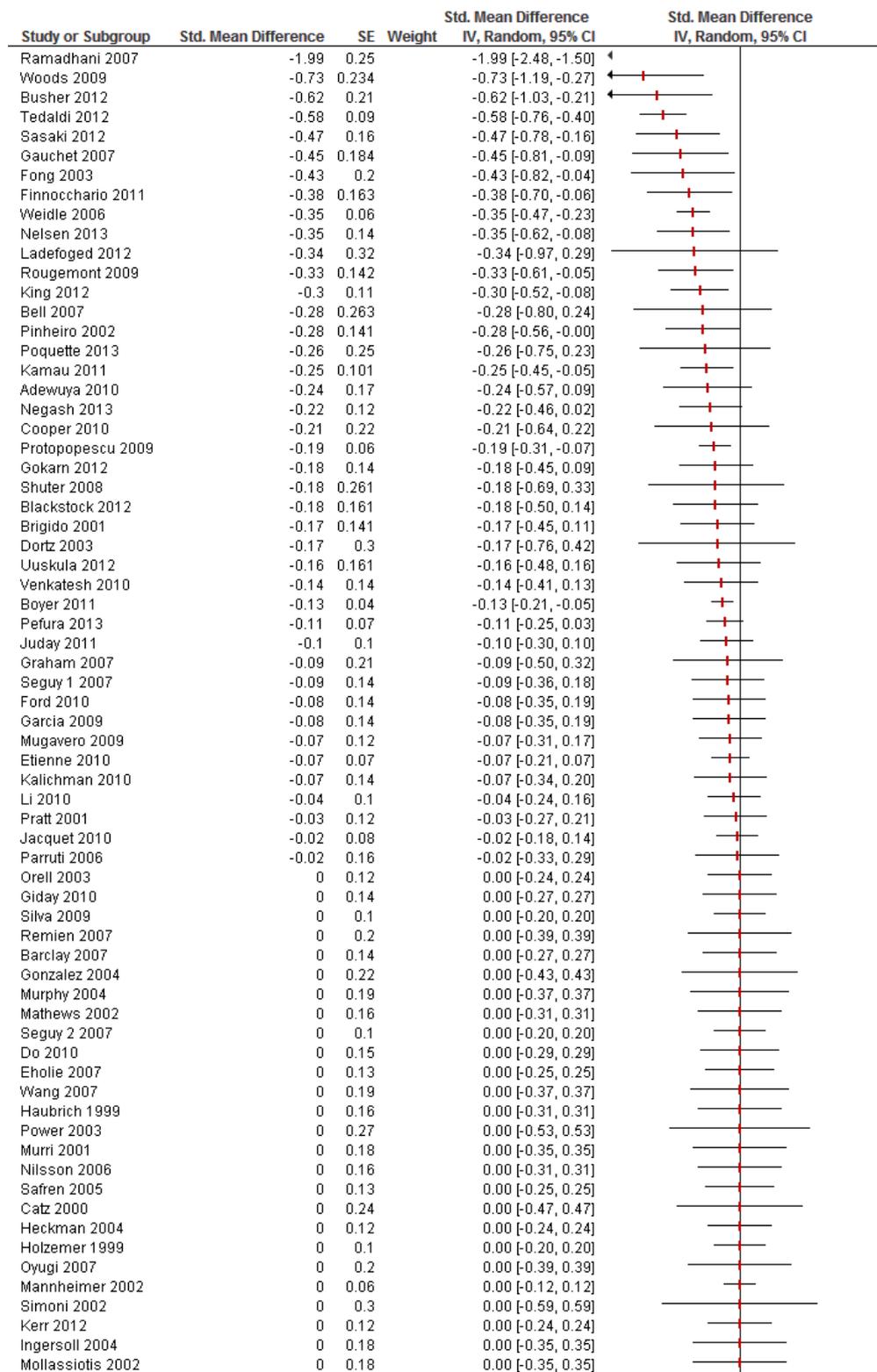
Time since HIV diagnosis

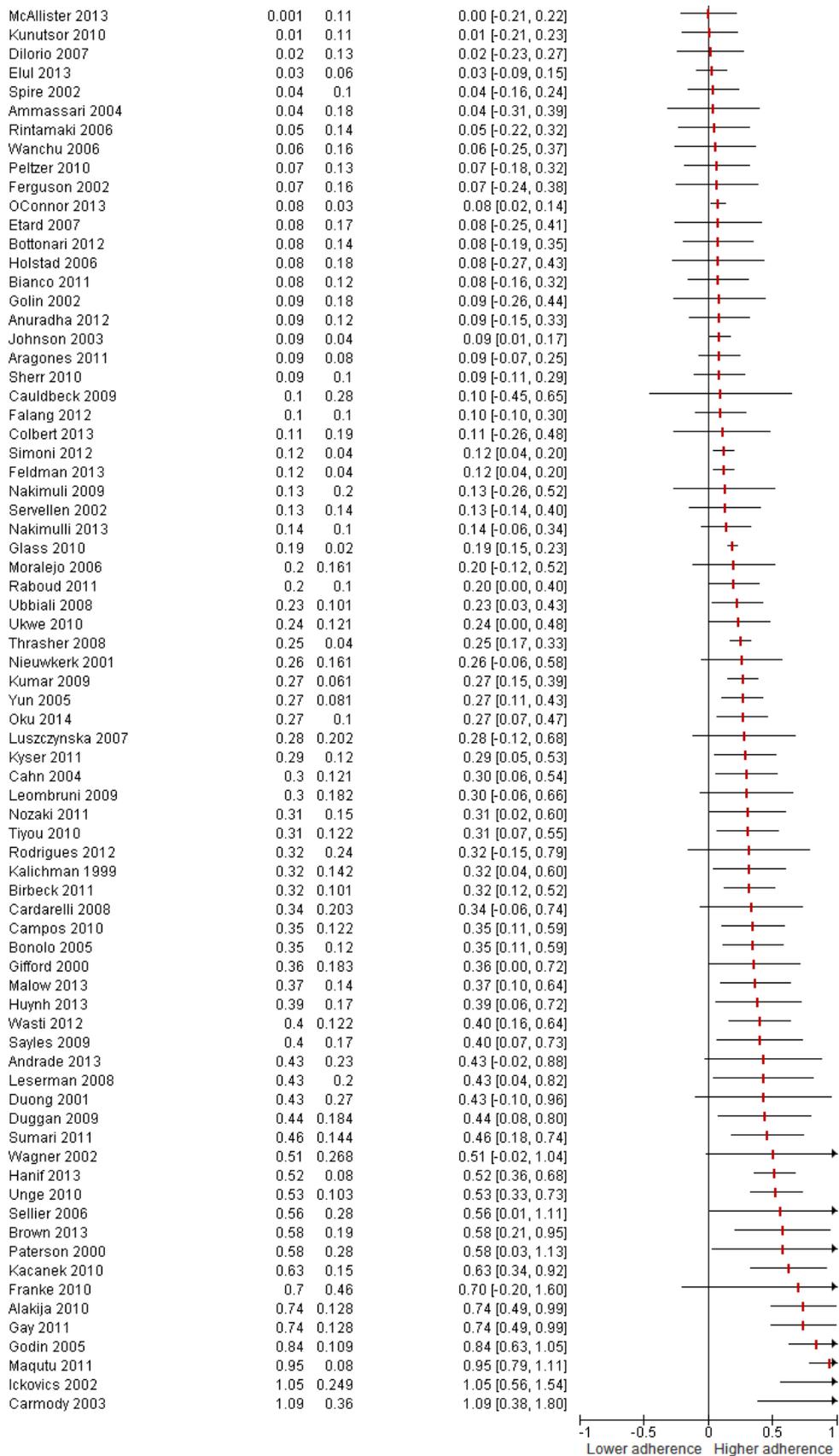


CD4 cell count



Male gender





Duration of ART

